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What is a double glass solar module?

In the ever-evolving world of photovoltaic technology, double glass solar modules are emerging as a game-changer. By encapsulating solar cells between two layers of glass, these modules offer unparalleled durability and efficiency. But what exactly sets them apart? What are double glass solar modules?

What is a double glass module?

In contrast, double glass modules replace the polymer layer with another glass sheet, creating a robust sandwich structure. At IBC SOLAR, we use 2,0 mm x 2,0 mm glass layers, whereas some other market offerings use thinner 1,6 mm x 1,6 mm layers. This ensures greater durability and longevity.

What is a dual-glass module?

Dual-glass type modules (also called double glass or glass-glass) are made up of two glass surfaces, on the front and on the rear with a thickness of 2.0 mm each. Some manufacturers, in order to reduce the weight of the modules, have opted for a thickness of 1.6 mm. Dualsun has chosen to stay with a thickness of 2.0 mm for reasons explained below.

What is the bifaciality of a double glass module?

Bifaciality: The bifaciality of double glass modules produces a gain of around 10-11% compared to the power measured on the front panel alone, for TOPCon type modules under so-called BNPI (bifacial nameplate irradiance) test conditions.

Glass-glass module structures (Glass Glass or Double Glass) is a technology that uses a glass layer on the back of the modules instead of the traditional polymer backsheet.

By choosing heat strengthened glass panels on both sides, we have been able to use a thickness of 2.5mm and to demonstrate an excellent module resistance to all standard mechanical tests ...

In summary, the double-glass construction of bifacial solar panels results in a highly durable, stable, and resilient module that withstands mechanical loads, thermal cycling, and ...

Compared to traditional single glass modules, double glass modules offer significant advantages, particularly in terms of efficiency and durability. The rear glass layer can absorb reflected light, ...

The Bifacial Mono PERC Double Glass Module combines bifacial technology with monocrystalline PERC cells encapsulated between two layers of glass.

Double glass modules, due to the hermeticity of their structure, present less risk of PID. This phenomenon can be avoided by the use of an appropriate encapsulation material and by ...

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Significant amount of near infrared light passes through bifacial cells. Double-glass structure shows a loss of ~ 1.30% compare to the glass/backsheet structure under STC measurements.

Double-glass modules, with their performance in the face of salt mist, high temperatures and high humidity, have won the market's favour. However, this trend is not ...

Unlike traditional single-glass modules, double glass designs use two layers of tempered glass, enhancing resistance to mechanical stress, humidity, and extreme weather.

But what exactly sets them apart? What are double glass solar modules? Traditional solar panels typically feature a glass front and a polymer backsheet.

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